

Review of Chapter 1

1.1 Simplifying Expressions

PEMDAS

1.2 Properties of Real Numbers

Commutative, Associative, Identity, Inverse, Distributive

Number sets

Additive and Multiplicative inverses



$$3 \quad -3 \quad \frac{1}{3}$$

1.3 More Properties

Reflexive, Symmetric, Transitive, Substitution, +, -, multiplication, division

Combine like terms
Solving equations

Word Problems

1.4 Absolute value

Check

True-All Reals

False-No solution

1.5 Inequalities

Interval Notation

Set Builder Notation

closed (open) $\rightarrow \{x | x > 3\}$

$$\{x | x \leq -5\}$$

$$(-\infty, -5]$$

$$\{x | 72 \leq x \leq 85.5\}$$

$$[72, 85.5]$$

1.6 Compound Inequalities

And/Or

Compound Absolute Value and Double Absolute value

Inequality Word

At most

At least

In between

$$< x <$$